

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Currently amended) ~~The~~ A method according to claim 5 for transmitting data through an IP network comprising: further including  
determining network conditions associated with data being transmitted through the IP network, including determining a level of congestion at a radio link from a base station;  
selectively transforming the data at a proxy server coupled to the base station, based upon the network conditions;  
assigning a first threshold to a first user requesting a disproportionate amount of bandwidth; and  
setting the first threshold based upon expected performance from a queueing model of the network to reduce the level of congestion of the radio link.
7. (Currently amended) ~~A~~ The method according to claim 2 for transmitting data through an IP network comprising: further including

determining network conditions associated with data being transmitted through the IP network, including determining a level of congestion at a radio link from a base station;

selectively transforming the data at a proxy server coupled to the base station, based upon the network conditions; and

selecting a first threshold for aggregate user link congestion above which data for the network users is transformed.

8. (Original) The method according to claim 7, further including selecting the first threshold based upon a queueing model of the network.

9. (Canceled)

10. (Currently amended) A The method according to claim 9 for transmitting data through an IP network comprising: , further including

determining network conditions associated with data being transmitted through the IP network, including determining a level of congestion at a radio link from a base station;

selectively transforming the data at a proxy server coupled to the base station, based upon the network conditions; and

selecting a the first threshold for link congestion based upon quality of the data link as measured by data rate and/or packet error performance and based upon expected performance from a queueing model of the network.

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Currently amended) ~~A~~ ~~The method according to claim 12~~ for transmitting data through an IP network comprising; ~~further including~~

determining network conditions associated with data being transmitted through the IP network;

selectively transforming the data at a proxy server coupled to a base station, based upon the network conditions, and

selecting a control delay corresponding to a delay of a feedback signal from the base station of the radio link containing congestion level information to the proxy server using a queueing model to model network performance based upon the control delay.

16. (Currently amended) ~~A~~ ~~The method according to claim 1~~ for transmitting data through an IP network comprising; ~~further including~~

determining network conditions associated with data being transmitted through the IP network;

selectively transforming the data at a proxy server coupled to a base station, based upon the network conditions, and

establishing a plurality of thresholds for determining when the data transformation is performed and not performed.

17. (Previously amended) The method according to claim 16, further including selecting a plurality of data transformation levels corresponding to respective ones of the plurality of thresholds.

18. (Currently amended) ~~A~~ ~~The method according to claim 1~~ for transmitting data through an IP network comprising; ~~further including~~

determining network conditions associated with data being transmitted through the IP network;

selectively transforming the data at a proxy server coupled to a base station, based upon the network conditions, and

establishing a first threshold level above which data transformation is performed.

19. (Original) The method according to claim 18, further including establishing a second threshold below which data transformation is not performed.

20. (Currently amended) A The method according to claim 1 for transmitting data through an IP network comprising: , further including

determining network conditions associated with data being transmitted through the IP network;

selectively transforming the data at a proxy server coupled to a base station, based upon the network conditions, and

establishing first, second, third and fourth states for determining whether data transformation is performed.

21. (Original) The method according to claim 20, further including transforming data in alternate ones of the states.

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Canceled)